

Grants4Apps™

:studycompanion

German Aerospace Center (DLR)

Andreas Schreiber <Andreas.Schreiber@dlr.de>



Knowledge for Tomorrow



Medical Trials, Studies, Experiments



study day	BDC -4		BDC -5		Breath Test: Im 1h Takt	BDC -6		Breath Test: Im 1h Takt	BDC -7		Breath Test: Im 1h Takt			study day
wake-up order	3	4	7	8		1	2		5	6				wake-up order
subject	A	B	C	D		E	F		G	H		K	L	subject
6:30	Temp, BP	Temp, BP	Temp, BP	Temp, BP		Temp, BP	Temp, BP		Temp, BP	Temp, BP				6:30
6:45			BD 1B (05)	BD 1B (05)		BD 1A (05)	BD 1A (05)		BD1(Saf. BCD 05 21)	BD1(Saf. BCD 05 21)				6:45
7:00	Braunite	Braunite	Urine 2 (05.NEG),BW	Urine 2 (05.NEG),BW		Ur 1(05 21 NEG),BW	Ur 1(05 21 NEG),BW		Urine 0 (Safety), BW	Urine 0 (Safety), BW				7:00
7:15														7:15
7:30														7:30
7:45														7:45
8:00			Breakfast	Breakfast		DEXA	DEXA		RMR (Dietcalc.) AMSAN					8:00
8:15						Elisabeth- Hospital Cologne	Elisabeth- Hospital Cologne		Breakfast	RMR (Dietcalc.) AMSAN				8:15
8:30	Lipid test	Lipid test	Sensory weighting						Eyeexamination II	Breakfast				8:30
8:45	PhL BD 4-14	PhL BD 4-14	AMSAN	Sensory weighting		Drink to go	Drink to go		AMC					8:45
9:00				AMSAN										9:00
9:15														9:15
9:30	High fat meal	High fat meal												9:30
9:45														9:45
10:00			Sensory weighting			Breakfast	Breakfast		MVC, muscle fatigue (Fam) PhL	Eyeexamination II				10:00
10:15			AMSAN	Sensory weighting						AMC				10:15
10:30				AMSAN		pQCT								10:30
10:45						Celler room B62								10:45
11:00														11:00
11:15														11:15
11:30														11:30
11:45														11:45
12:00														12:00
12:15														12:15
12:30														12:30
12:45														12:45
13:00			Lunch	Lunch		Lunch			Lunch					13:00
13:15														13:15
13:30														13:30
13:45														13:45
14:00			Plasma volume PhL BD 2+3			Achilles tendon US AMSAN			Eyeexamination I					14:00
14:15														14:15
14:30				Plasma volume PhL BD 2+3			Achilles tendon US AMSAN		AMC					14:30
14:45														14:45
15:00						Muscle fatigue			BW (AMSAN)	Eyeexamination I		Arrival at DLR formalities	Arrival at DLR formalities	15:00
15:15						NMR-lab			VO2max	AMC		alc test (saliva)	alc test (saliva)	15:15
15:30									PhL					15:30
15:45									BW (AMSAN)	VO2max				15:45
16:00														16:00
16:15	extended Snack						Muscle fatigue							16:15
16:30							NMR-lab							16:30
16:45														16:45
17:00														17:00
17:15	Muscle+Fat biopsy (right leg)	extended Snack												17:15
17:30														17:30
17:45	PhL													17:45
18:00														18:00
18:15		Muscle+Fat biopsy (right leg)												18:15
18:30									24h ECG-stop			24h ECG-start	Tilt Table+LBNP (Fam) PhL	18:30
18:45														18:45
19:00	Dinner		Dinner	Dinner		Dinner	Dinner		Dinner	Dinner		plasma volume (Fam) PhL	24h ECG-start	19:00
19:15	LOG	PhL	LOG	LOG		LOG	LOG		LOG	24h ECG-stop LOG				19:15
19:30												free choice dinner	free choice dinner	19:30
19:45		Dinner							Shower					19:45
20:00		LOG				ICP AMSAN	ICP AMSAN			Shower				20:00
20:15														20:15
20:30														20:30
20:45														20:45
21:00														21:00
21:15	Snack	Snack	Snack	Snack		Snack	Snack		Snack	Snack		Drink	Drink	21:15
21:30														21:30
21:45														21:45
22:00														22:00
22:15	Bedtime	Bedtime	Bedtime	Bedtime		Bedtime	Bedtime		Bedtime	Bedtime		Bedtime	Bedtime	22:15
22:30														22:30
22:45														22:45



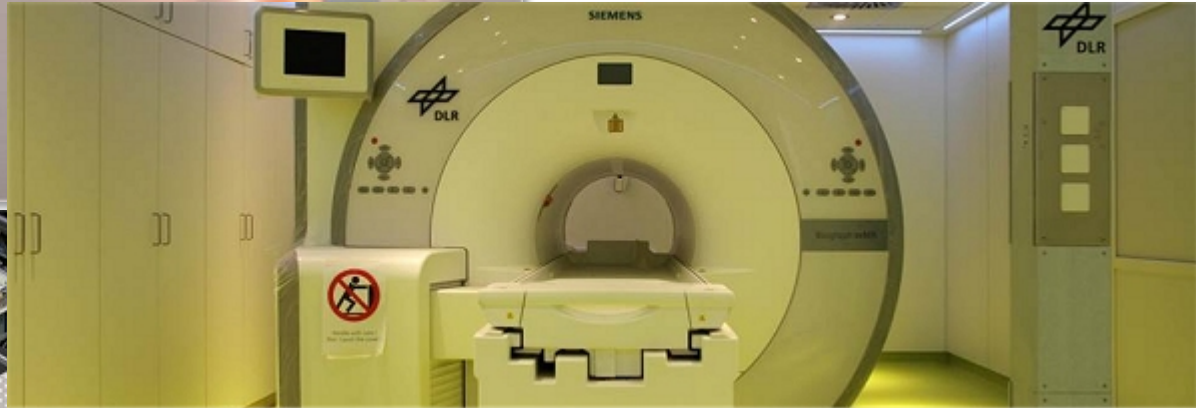
study day	BDC -3		BDC -4		BDC -5		Breath Test: Im 1h Takt	BDC -6		Breath Test: Im 1h Takt	BDC -7		Breath Test: Im 1h Takt	day
wake-up order														order
subject	A	B	C	D	E	F		G	H		K	L		st
6:30	Temp, BP	Temp, BP	Temp, BP	Temp, BP	Temp, BP	Temp, BP		Temp, BP	Temp, BP		Temp, BP	Temp, BP		6:30
6:45					BD 1B (05)	BD 1B (05)		BD 1A (05)	BD 1A (05)		BD1(Saf. BCD,05,21)	BD1(Saf. BCD,05,21)		6:45
7:00	Urine 4 (05.NEG),BW	Urine 4 (05.NEG),BW	Braunle Urine 3 (05.NEG),BW	Braunle Urine 3 (05.NEG),BW	Urine 2 (05.NEG),BW	Urine 2 (05.NEG),BW		Ur 1(05,21.NEG),BW	Ur 1(05,21.NEG),BW		Urine 0 (Safety), BW	Urine 0 (Safety), BW		7:00
7:15											RMR (Dietcalc.) AMSAN			7:15
7:30											Breakfast			7:30
7:45												RMR (Dietcalc.) AMSAN		7:45
8:00	Breakfast	Breakfast			Breakfast	Breakfast		DEXA Elisabeth- Hospital Cologne	DEXA Elisabeth- Hospital Cologne					8:00
8:15			Lipid test	Lipid test										8:15
8:30			PhL BD 4-14	PhL BD 4-14	Sensory weighting	Sensory weighting					Eyeexamination II	Breakfast		8:30
8:45					AMSAN	AMSAN		Drink to go	Drink to go		AMC			8:45
9:00														9:00
9:15														9:15
9:30														9:30
9:45														9:45
10:00			High fat meal	High fat meal				Breakfast	Breakfast					10:00
10:15					Sensory weighting	Sensory weighting					MVC, muscle fatigue (Fam) PhL	Eyeexamination II		10:15
10:30					AMSAN	AMSAN						AMC		10:30
10:45														10:45
11:00														11:00
11:15														11:15
11:30														11:30
11:45														11:45
12:00														12:00
12:15														12:15
12:30														12:30
12:45														12:45
13:00	Lunch	Lunch												13:00
13:15														13:15
13:30														13:30
13:45	BW (AMSAN)													13:45
14:00														14:00
14:15	MVC, muscle fatigue (left leg)													14:15
14:30														14:30
14:45														14:45
15:00														15:00
15:15														15:15
15:30	PhL													15:30
15:45		BW (AMSAN)		extended Snack										15:45
16:00	BW (AMSAN)		extended Snack											16:00
16:15														16:15
16:30		MVC, muscle fatigue (left leg)												16:30
16:45														16:45
17:00														17:00
17:15														17:15
17:30		PhL		Muscle+Fat biopsy (right leg)										17:30
17:45				PhL										17:45
18:00		BW (AMSAN)												18:00
18:15														18:15
18:30														18:30
18:45			Muscle+Fat biopsy (right leg)								24h ECG-stop			18:45
19:00	Dinner	Dinner												19:00
19:15														19:15
19:30	LOG	LOG	PhL											19:30
19:45			Dinner											19:45
20:00			LOG											20:00
20:15														20:15
20:30														20:30
20:45														20:45
21:00														21:00
21:15	Snack	Snack	Snack	Snack	Snack	Snack		Snack	Snack		Snack	Snack		21:15
21:30														21:30
21:45														21:45
22:00														22:00
22:15	Bedtime	Bedtime	Bedtime	Bedtime	Bedtime	Bedtime		Bedtime	Bedtime		Bedtime	Bedtime		22:15
22:30														22:30
22:45														22:45

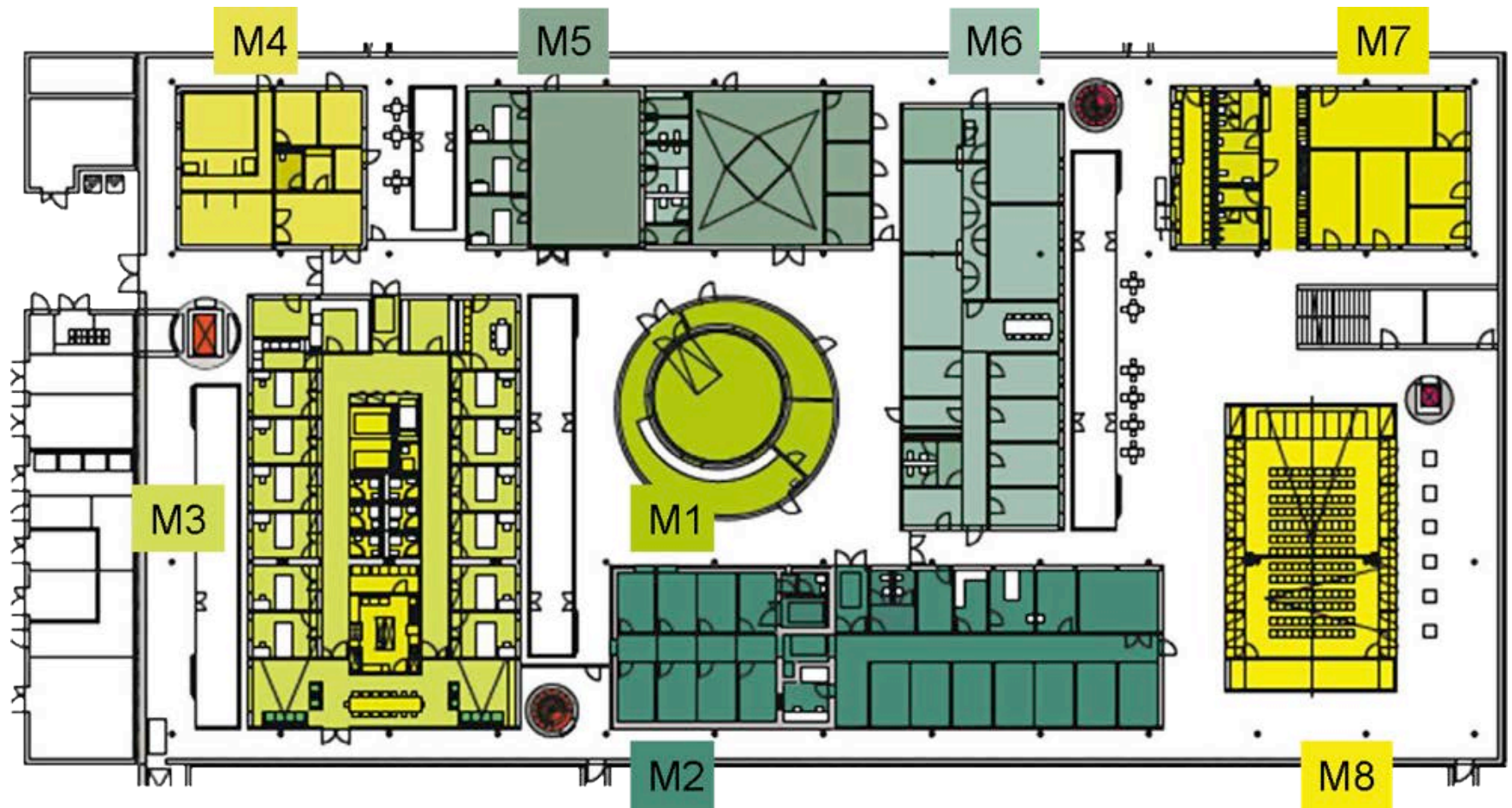


study day	R+1		R+0		HDT 21		HDT 20		HDT 19		study day
wake-up order	7	8	3	4	5	6			1	2	wake-up order
subject	A	B	C	D	E	F	G	H	K	L	subject
6:30	Breathtest	Breathtest	Temp, BP	Temp, BP	Breathtest	Breathtest	Temp, BP	Temp, BP	Temp, BP	Temp, BP	6:30
6:45	BD 53 (05.21, 27.45)	BD 53 (05.21, 27.45)	Braunüle	Braunüle	B42 (05.21, 27.45)	B42 (05.21, 27.45)	Urine 26 (05.45), BW	Urine 26 (05.45), BW	Urine 25 (05), BW	Urine 25 (05), BW	6:45
7:00	Urine 29 (05.21), BW	Urine 29 (05.21), BW	U 28 (05.21, 45 BCD), BW	U 28 (05.21, 45 BCD), BW	Urine 27 (05.21, 45), BW	Urine 27 (05.21, 45), BW	Urine 26 (05.45), BW	Urine 26 (05.45), BW	Urine 25 (05), BW	Urine 25 (05), BW	7:00
7:15	BGA	BGA	Breakfast	Breakfast	BGA	BGA	Breakfast	Breakfast			7:15
7:30			24h ECG-stop+start	24h ECG-stop+start	24h ECG-start	24h ECG-start	+ WP/KHCO3				7:30
7:45											7:45
8:00	Breakfast	Breakfast		Breakfast			Sensory weighting	Breakfast			8:00
8:15					Microdialysis (right leg)	Microdialysis (right leg)					8:15
8:30	Muscle fatigue				PhL	PhL	AMSAN	Sensory weighting			8:30
8:45											8:45
9:00	NMR-lab										9:00
9:15											9:15
9:30											9:30
9:45											9:45
10:00							Snack				10:00
10:15							+ WP/KHCO3				10:15
10:30		Muscle fatigue			Glucose tolerance	Glucose tolerance	Sensory weighting	Snack			10:30
10:45											10:45
11:00		NMR-lab			PhL	PhL	AMSAN	Sensory weighting			11:00
11:15											11:15
11:30											11:30
11:45											11:45
12:00	Eyeexamination II	END OF IMMOBILISATION	24h ECG-stop	Tilt Table+LBNP							12:00
12:15			Snack								12:15
12:30	AMC		PG, DGI	End of HDT			Achilles tendon US				12:30
12:45			AMSAN	PhL							12:45
13:00	Lunch	Lunch	Lunch	BD 50-52			Lunch	Lunch			13:00
13:15					+ WP/KHCO3 (x2)		+ WP/KHCO3				13:15
13:30											13:30
13:45					Plasma volume			Achilles tendon US			13:45
14:00					PhL						14:00
14:15					BD 48+49						14:15
14:30											14:30
14:45						Plasma volume	Shower				14:45
15:00						PhL					15:00
15:15						BD 48+49					15:15
15:30	VO2max	Eyeexamination II		24h ECG-stop	END OF IMMOBILISATION						15:30
15:45				Lunch							15:45
16:00	PhL	AMC		PG, DGI							16:00
16:15				AMSAN	Snack	Snack					16:15
16:30		VO2max			+ WP/KHCO3						16:30
16:45				Eyeexamination I							16:45
17:00		PhL		AMC							17:00
17:15											17:15
17:30											17:30
17:45											17:45
18:00											18:00
18:15	24h ECG-stop				pQCT						18:15
18:30					Celler room B62						18:30
18:45											18:45
19:00	Dinner	Dinner			Dinner						19:00
19:15					+ WP/KHCO3 (x2)						19:15
19:30	LOG	LOG			LOG						19:30
19:45											19:45
20:00											20:00
20:15	ICP	ICP									20:15
20:30											20:30
20:45											20:45
21:00											21:00
21:15											21:15
21:30	Drink	Drink									21:30
21:45		24h ECG-stop			Snack	Snack					21:45
22:00					+ WP/KHCO3						22:00
22:15					Ass. of headache	Ass. of headache					22:15
22:30	Bedtime	Bedtime									22:30
22:45											22:45



Complex Environments







:study



:study**creator**



:study**data**



:study**forms**



:study**companion**



:studycompanion App

App for patients and study participants

- Daily schedule
- Current location
- Directions (In-door navigation)

